

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001620

A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. 7: A61B 5/00; G08C 17/00; G08B 25/10; H04B 1/03 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI – Keywords (vital sign, physiologic, heartrate, glucose, wireless, radio, sensor etc)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6544173 B2 (WEST et al) 8 April 2003 See entire document	1-37
X	US 6544174 B2 (WEST et al) 8 April 2003 See entire document	1-37
X	US 6616606 B1 (PETERSON et al) 9 September 2003 See entire document	1-37
X	US 2003/0050537 A1 (WESSEL) 13 March 2003 See entire document	1-37
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 10 March 2005		Date of mailing of the international search report 16 MAR 2005
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer SWAYAM CHINTAMANI Telephone No : (02) 6283 2202

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 1998034577 A1 (LEWIN) 13 August 1998 See entire document	1-37
X	US 2002/0038094 A1 (GORMAN) 28 March 2002 See entire document	1-37
X	EP 1214905 A1 (TERUMO KABUSHIKI KAISHA) 19 June 2002 See paragraph [0050] and figures	1-37
X	US 6336900 B1 (ALLECKSON et al) 8 January 2002 See entire document	1-37
X	WO 2002035997 A1 (COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION) 10 May 2002 See entire document	1-37
X	US 5694940 A (UNGER et al) 9 December 1997 See entire document	1-37
X	WO 1997009923 A1 (MEDISON CO., LTD.) 20 March 1997 See entire document	1-37
X	US 6093146 A (FILANGERI) 25 July 2000 See entire document	1-37
X	US 6315719 B1 (RODE et al) 13 November 2001 See entire document	1-37
X	US 5720771 A (SNELL) 24 February 1998 See entire document	1-37
X	WO 1994001040 A1 (HERTFORD MEDICAL LIMITED) 20 January 1994 See figures 1 and 5	1-37

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See extra sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-37

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

1. Claims 1 to 37 are related to a monitoring device comprising signal inputting components and wireless communication circuitry mounted in a housing. It is considered that the signal input components positioned in the housing comprises a first "special technical feature".
2. Claims 38 to 42 are related to an accessory including a number of contact pads and a number of connectors detachably connectable to the input components. It is considered that a number of connectors detachably connectable to the input components of the monitoring device comprise a second special technical feature.
3. Claims 43 to 45 are related to a method of monitoring blood composition. It is considered that the step of relaying the signal from the communication device to a computer which then decodes the signal comprises a third special technical feature.
4. Claim 46 is related to a method of treating a patient including the steps of remotely obtaining blood composition data at predetermined intervals. It is considered that the step of applying analytical algorithms to data and sending event driven signals to the patient comprises a fourth special technical feature.
5. The invention defined in claims 47, 49 and 51 is related to an apparatus for monitoring blood composition/glucose level/oxygen level. The apparatus comprises a first communication device connected to the sensor and a second communication device configured to receive signals from the first device and a computer to receive signals from the second device. It is considered that the combination of two communication devices and the computer comprise a fifth special technical feature.

The invention defined in claims 48, 50 and 52 falls within the scope of the above group and is related to an apparatus including a sensor and a single communication device.

Since the abovementioned groups of claims do not share any of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.

As the search and examination for the additional inventions will each require more than a little additional search and examination effort over that for the first invention and each other, four additional search fees are warranted.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US 6544173	AU 64654/01	EP 1404213	US 6544174				
	US 6616606	US 2002013517	US 2002013518				
	US 2003206116	WO 0189362					
US 2003050537	US 6494830	US 6699188					
WO 9834577	AU 60106/98						
US 2002038094	AU 64081/94	CA 2158552	EP 0192237				
	EP 0278973	EP 0690696	IN 166926				
	JP 61204095	US 4891320	US 5394879				
	US 5400794	US 5459065	US 5538007				
	US 5597730	US 5913827	US 6208889				
	US 6304774	US 6332094	WO 8801255				
	WO 9421171						
EP 1214905	JP 2002177232	US 6735464	US 2002091331				
US 6336900							
WO 0235997	AU 13656/02						
US 5694940	EP 0617914	US 5871451					
WO 9709923	EP 0855872	US 6035230					
US 6093146							
US 6315719	DE 19929328	EP 1062906	JP 2001057966				
US 5720771							
WO 9401040	EP 0650342	US 5606978					
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							